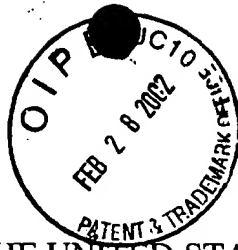


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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Nayfeh et al.

Serial No.: 09/496,506

Filed: February 2, 2000

For: SILICON NANOPARTICLE
FIELD EFFECT TRANSISTOR AND
TRANSISTOR MEMORY DEVICE

Art Unit: 2811

) I hereby certify that this paper is being deposited with
) the United States Postal Service as FIRST-CLASS mail
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) 2/19/02
) Date
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) Appr. February 20, 1998

Registration No. 35/32

Attorney for Applicant

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In accordance with 37 C.F.R. §§1.56, 1.97 and 1.98, applicants through counsel

herewith:

Submit a copy of the patents and publications set forth in the attached form

PTO-1449 as follows:

U.S. PATENT DOCUMENTS

PATENT NO.	PATENTEE	ISSUE DATE
4,931,692	Takagi et al.	Jun. 5, 1990
5,747,180	Miller et al.	May 5, 1998

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PUBLICATIONS

- (1) G.M. Credo, M.D. Mason, and S.K. Buratto, "External quantum efficiency of single porous silicon nanoparticles", *Applied Physics Letters*, Vol. 74, No. 14, 5 April 1999, pp. 1978-1980.
- (2) D.J. DiMaria, J.R. Kirtley, E.J. Pakulis, D.W. Dong, T.S. Kuan, F.L. Pesavento, T.N. Theis, J.A. Cutro, and S.D. Brorson, "Electroluminescence studies in silicon dioxide films containing tiny silicon islands", *J. Appl. Phys.*, Vol. 56, No. 2, 15 July 1984, pp. 401-416.
- (3) S. Juen, K. Überbacher, J. Baldauf, K.F. Lamprecht, R. Tessadri, R. Lackner, R.A. Höpfel, "Technology and Photoluminescence of GaAs Micro- and Nanocrystallites", *Superlattices and Microstructures*, Vol. 11, No. 2, 1992, pp. 181-184.
- (4) K.A. Littau, P.J. Szajowski, A.J. Muller, A.R. Kortan, and L.E. Brus, "A Luminescent Silicon Nanocrystal Colloid via a High-Temperature Aerosol Reaction", *The Journal of Physical Chemistry*, Vol. 97, No. 6, 1993, pp. 1224-1230.
- (5) Anton Fojtik, Arnim Henglein, "Luminescent colloidal silicon particles", *Chemical Physics Letters* 221, 29 April 1994, pp. 363-367.
- (6) L.A. Chiu, A.A. Seraphin, and K.D. Kolenbrander, "Gas Phase Synthesis and Processing of Silicon Nanocrystallites: Characterization by Photoluminescence Emission Spectroscopy", *Journal of Electronic Materials*, Vol. 23, No. 3, 1994.
- (7) Xinwei Zhao, Olaf Schoenfeld, Jun-ichi Kusano, Yoshinobu Aoyagi and Takuo Sugano, "Observation of Direct Transitions in Silicon Nanocrystallites", *Jpn. J. Appl. Phys.*, Vol. 33, 1 July 1994, Pt. 2, No. 7A, pp. L899-L901.
- (8) J. Erland, P. Yu, S.I. Bozhevolnyi, J.M. Hvam, N.N. Ledentsov, "Second harmonic spectroscopy of semiconductor nanostructures", *Quantum Electronics and Laser Science Conference Technical Digest*, May 1999, pp. 233-234.
- (9) L. Pavesi, L. Dal Negro, C. Mazzoleni, G. Franzo and F. Prlolo, "Optical gain in silicon nanocrystals", *Nature*, Vol. 408, 23 November 2000, pp. 440-443.

REMARKS

Applicants respectfully request that the Examiner consider the above-listed references in the examination of this application and list these references of record in the application.

Applicant encloses herewith a check in the amount of \$180.00 to cover the fee set forth in 37 C.F.R. § 1.17(p).

The Commissioner is hereby authorized to charge any additional fees which may be required in this application under 37 C.F.R. §§ 1.16-1.17 to Deposit Account No. 07-2069.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

By: 

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